

PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/676,918
				Filing Date	09-30-2003
				First Named Inventor	NADAV EIRON
				Art Unit	
				Examiner Name	NOT ASSIGNED
				Attorney Docket Number	ARC920030028US1
Sheet	1	of	4		

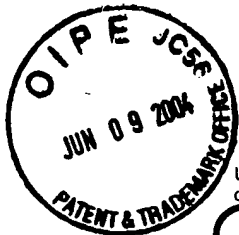
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		Filing Date	09-30-2003
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		[1] HTML 4.01 specification, W3C recommendation, December 1999.	
		[2] Lada A. Adamic and Eytan Adar. Friends and neighbors on the web. <a href="http://www.hpl.hp.com/shl/people/eytan/fnn.pdf">http://www.hpl.hp.com/shl/people/eytan/fnn.pdf</a> .	
		[3] Tim Berners Lee, James Hendler, and Ora Lassila. The semantic web. Scientific American, May 2001, <a href="http://www.sciam.com/2001/0501issue/0501berners-lee.html">http://www.sciam.com/2001/0501issue/0501berners-lee.html</a>	
		[4] Rodrigo A. Botafogo and Ben Shneiderman. Identifying aggregates in hypertext structures. In UK Conference on Hypertext, pages 63-74, 1991.	
		[5] Vannevar Bush. As we may think. The Atlantic Monthly, 176(1):101-108, July 1945.	
		[6] Michael Chen, Marti A. Hearst, Jason Hong, and James Lin. Cha-cha: A system for organizing intranet search results. In USENIX Symposium on Internet Technologies and Systems, 1999.	
		[7] R. C. Daley and P. G. Neumann. A general purpose file system for secondary storage. In AFIPS Conference Proceedings, volume 27, pages 213-229, 1965.	
		[8] M. M. Kessler. Bibliographic coupling between scientific papers. American Documentation, 14, 1963.	
		[9] S. Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, and Andrew Tomkins. Extracting large scale knowledge bases from the Web. In Proceedings of the 25th VLDB Conference, pages 639-650, 1999.	
		[10] Yoshiaki Mizuuchi and Keishi Tajima. Finding context paths for Web pages. In Proceedings of Hypertext 99, pages 13-22, Darmstadt, Germany, 1999.	

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		<b>Group Art Unit</b>	
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		[11] Theodor Holm Nelson. Embedded markup considered harmful. <a href="http://www.xml.com/pub/a/w3j/s3.nelson.html">http://www.xml.com/pub/a/w3j/s3.nelson.html</a> , October 1997.	
		[12] David M. Pennock, Gary W. Flake, Steve Lawrence, Eric J. Glover, and C. Les Giles. Winners don't take all: Characterizing the competition for links on the web. Proceedings of the National Academy of Science, 99(8):5207-5211, April 16 2002.	
		[13] Craig Silverstein, Monika Henzinger, Hannes Marais, and Michael Moricz. Analysis of a very large altavista query log. Technical report, DEC Systems Research Center, 1998, Technical note 1998 14.	
		[14] H. A. Simon. On a class of skew distribution functions. Biometrika, 42(3/4):425-440, 1955.	
		[15] H. G. Small. Co citation in the scientific literature: A new measure of the relationship between two documents. Journal of American Society for Information Science, 24(4):265-269, 1973.	
		[16] Ellen Spertus. Parasite: Mining structural information on the web. In Proceedings of the Sixth International Conference on the World Wide Web, volume 29 of Computer Networks, pages 1205-1215, 1997.	
		[17] Amanda Spink, Dietmar Wolfram, B. J. Jansen, and Tefko Saracevic. Searching the web: The public and their queries. Journal of the American Society for Information Science, 53(2):226-234, 2001.	
		[18] Keishi Tajima, Kenji Hatano, Takeshi Matsukura, Ryouichi Sano, and Katsumi Tanaka. Discovery and retrieval of logical information units in web. In Proceedings of the Workshop on Organizing Web Space (WOWS 99), pages 13-23, Berkeley, CA, August 1999.	
		[19] Duncan J. Watts and Steven H. Strogatz. Collective dynamics of "small world networks". Nature, 393:440-442, June 4 1998.	
		[20] Ron Weiss, Bienvenido Velez, Mark A. Sheldon, Chanathip Namprempre, Peter Szilagyi, Andrzej Duda, and David K. Gifford. Hypersuit: A hierarchical network search engine that exploits content link hypertext clustering. In ACM Conference on Hypertext, pages 180-193, Washington USA, 1996.	
		[21] Nadav Eiron, Kevin McCurley. Locality, Hierarchy, and Bidirectionality in the Web, <a href="http://www.almaden.ibm.com/cs/people/mccurley/pdfs/graph.pdf">http://www.almaden.ibm.com/cs/people/mccurley/pdfs/graph.pdf</a>	
		[22] Gary Flake, Steve Lawrence, C. Lee Giles. Efficient Identification of Web Communities, Proceedings of the Sixth International Conference on Knowledge Discovery and Data Mining (ACM SIGKDD-2000), p. 150-160, August 20-23, 2000, Boston, MA, USA.	

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		<b>Group Art Unit</b>	2131
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		[23] Keishi Tajima, Yoshiaki Mizuuchi, Masatsugu Kitagawa, Katsumi Tanaka. Cut as-a Querying Unit for WWW, Netnews, and E-Mail, Proc. Of ACM Hypertext '98, June 1998, Pittsburgh, PA, USA.	
		[24] Ravi Kumar, Prabhakar Raghavan, Sridhar Rajagopalan, Andrew Tomkins. Trawling the web for emerging cyber-communities, Computer Networks, v. 31, n. 11-16, p. 1481-1493, 1999, Amsterdam, Netherlands.	
		[25] Xiaofeng He, Chris H.Q. Ding, Hongyuan Zha, Horst D. Simon. Automatic Topic Identification Using Webpage Clustering, ICDM 2001, Proceedings IEEE Conference on Data Mining, 2001, p. 195-202.	
		[26] Donna Bergmark. Models and tools for generating digital libraries: Collection synthesis, Proceedings of the second ACM/IEEE-CS joint conference on Digital libraries, July 2002, p. 253-262.	
		[27] Activity analysis of real world entities by combining dynamic information sources and real world entities, Research Disclosure, n. 433100, May 2000, p. 905-906.	
		[28] Virtual URLs for Browsing and Searching Large Information Spaces, Research Disclosure, n. 41392, September 1998, p. 1238-1239.	
		[29] Database for Navigational Links for a Text Part in a Compound Document, IBM Technical Disclosure Bulletin, v. 38, n. 1, January 1995, p. 371-372.	
		[30] Lada A. Adamic. The Small World Web, Proc. 3rd European Conf. Research and Advanced Technology for Digital Libraries (ECDL), n. 1696, 1999, p. 443-452, Springer-Verlag, S. Abiteboul and A.-M. Vercoustre eds. a third code means for processing the compound document, wherein the processing includes at least one of creating at least one presentation of results from retrieval, summarization, and classification.	

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